

IN THE CLAIMS:

Please AMEND claims 1, 4-30, and 32-34;

Please ADD claims 37-49; and

Please CANCEL claims 31 and 35-36 without prejudice or disclaimer, as shown below.

1. (Currently Amended) ~~A method of providing access via a first network to a service facilitated by a second network, said method comprising the steps of:~~

a) ~~—using an authentication message to signal a service selection information via asaid first network to an authentication server means of asaid second network, the service selection information indicating an access point; and~~

b) ~~—using said service selection information to connect to at least one services provided over saidan access point indicated by said service selection information.~~

2. (Previously Presented) A method according to claim 1, wherein said first network is a wireless local area network.

3. (Previously Presented) A method according to claim 1, wherein said second network is a cellular packet-switched network.

4. (Currently Amended) A method according to claim 3, wherein said cellular packet-switched network is a general packet radio service~~GPRS~~ network.

5. (Currently Amended) A method according to claim 1, wherein said authentication message is an extensible authentication protocol~~EAP~~ message.

6. (Currently Amended) A method according to claim 5, wherein said extensible authentication protocol~~EAP~~ message is an extensible authentication protocol subscriber identity module~~EAP-SIM~~ or extensible authentication protocol authentication and key agreement~~EAP-AKA~~ message.

7. (Currently Amended) A method according to claim 5, wherein said authentication message is an extensible authentication protocol~~EAP~~ Challenge~~E~~Response~~R~~ message.

8. (Currently Amended) A method according to claim 1, wherein said service selection information comprises at least one access point name~~APN~~ parameter.

9. (Currently Amended) A method according to claim 8, wherein said at least one access point name~~APN~~ parameter comprises an access point name~~APN~~, a username and a password.

10. (Currently Amended) A method according to claim 87, wherein said access point name~~APN~~ parameter is encrypted in said authentication message.

11. (Currently Amended) A method according to claim 9, wherein said at least one access point name~~of said APN~~ parameters is encrypted so that said at least one access point name parameter~~it~~ can only be decrypted at the network defined by the access point name~~APN~~.

12. (Currently Amended) An apparatus, comprising~~authentication server device for providing an authentication mechanism, said authentication server being configured:~~

a) ~~—~~a processor configured to extract from a received authentication message a service selection information to~~for~~ selecting a service,~~;~~ and

b) ~~—~~wherein the processor is configured to use said service selection information to~~for~~ establishing a connection to services provided over an access point indicated by said service selection information.

13. (Currently Amended) The apparatus~~An authentication server~~ according to claim 12, wherein said received authentication message~~mechanism~~ is based on an extensible authentication~~EAP~~ protocol.

14. (Currently Amended) ~~The apparatus~~An authentication server according to claim 13, wherein said received authentication message is an extensible authentication protocol~~EAP~~ challenge ~~Response~~ message.

15. (Currently Amended) ~~The apparatus~~An authentication server according to claim 12, wherein said ~~processor~~authentication server is a standalone wireless local area network~~WLAN~~ authentication server.

16. (Currently Amended) ~~The apparatus~~An authentication server according to claim 12, wherein said ~~processor~~authentication server is a gateway general packet radio service support node~~GGSN~~.

17. (Currently Amended) ~~The apparatus~~An authentication server device according to claim 12, wherein said service selection information comprises at least one access point name~~APN~~ parameter.

18. (Currently Amended) ~~The apparatus~~An authentication server according to claim 17, wherein said access point name~~APN~~ parameter is encrypted in said authentication message.

19. (Currently Amended) ~~The apparatus~~An authentication server according to claim 17, wherein said at least one access point name~~of said APN~~ parameters is decrypted in said processor~~authentication server~~.

20. (Currently Amended) ~~The apparatus~~An authentication server according to claim 17, wherein said at least one access point name~~of said APN~~ parameter is forwarded by the processor~~authentication server~~ to said access point in an encrypted manner.

21. (Currently Amended) ~~An apparatus~~A terminal device for providing access to a network service, comprising:

a processor~~said device being~~ configured to set in an authentication message a service selection information regarding~~for selection of~~ ing ~~a~~said network service.

22. (Currently Amended) ~~The apparatus~~A device according to claim 21, wherein said authentication message is an extensible authentication protocol~~EAP~~ message.

23. (Currently Amended) ~~The apparatus~~A device according to claim 22, wherein said extensible authentication protocol~~EAP~~ message is an extensible authentication protocol~~EAP~~ C~~hallenge R~~e~~sponse~~ message.

24. (Currently Amended) ~~The apparatus~~A device according to claim 23, wherein said extensible authentication protocol~~EAP~~ Cchallenge Rresponse message is an extensible authentication protocol subscriber identity module~~EAP-SIM~~ or extensible authentication protocol authentication and key agreement~~EAP-AKA~~ Cchallenge Rresponse message.

25. (Currently Amended) ~~The apparatus~~A device according to claim 21, wherein said service selection information comprises at least one access point name~~APN~~ parameter.

26. (Currently Amended) ~~The apparatus~~A device according to claim 21, wherein said service is a general packet radio~~GPRS~~ service.

27. (Currently Amended) ~~A~~For providing access from a first network to a service of a second network, said system, comprising:

a terminal device~~said terminal device~~ configured to provide access to a network service, said terminal device configured to set in an authentication message a service selection information regarding~~for selection of~~ing said network service; and

an authentication server device connected to a~~the~~ second network, said authentication server device configured to~~for provide~~ing an authentication mechanism, said authentication server device~~being~~ configured to extract from a received

authentication message said service selection information ~~to~~for selecting said service, and to use said service selection information ~~to~~for establishing a connection to services provided over an access point indicated by said service selection information.

28. (Currently Amended) A method, ~~of providing an authentication mechanism,~~
~~said method~~ comprising the steps of:

a) ~~—~~extracting from a received authentication message a service selection information ~~to~~for selecting a service; and

b) ~~—~~using said service selection information ~~to~~for establishing a connection to services provided over an access point indicated by said service selection information.

29. (Currently Amended) A method, ~~of providing access to a network service,~~
~~said method~~ comprising:

~~the step of~~ setting in an authentication message a service selection information regarding~~for~~ selection of~~ing~~ a~~said~~ network service at a terminal device.

30. (Currently Amended) A computer-readable storage medium having computer-executable components, comprising: ~~program product embodied on a computer readable medium comprising code means configured to produce the steps of claim 1 when run on a computer device~~

using an authentication message to signal a service selection information via a first network to a second network; and

using said service selection information to connect to services provided over an access point indicated by said service selection information.

31. (Cancelled)

32. (Currently Amended) A computer-readable storage medium having stored thereon a data structure, comprising: of an authentication message,

~~said data structure being configured to include a service selection information to~~ for selecting a service.

33. (Currently Amended) A computer-readable storage medium having computer-executable components, comprising: program product embodied on a computer readable medium, said computer program product comprising code means configured to produce the steps of claim 28 when run on a computer device

extracting from a received authentication message a service selection information to select a service; and

using said service selection information to establish a connection to services provided over an access point indicated by said service selection information.

34. (Currently Amended) A computer-readable storage medium having computer-executable components, comprising: ~~program product embodied on a computer readable medium, said computer program product comprising code means configured to produce the steps of claim 29 when run on a computer device~~

setting in an authentication message a service selection information regarding selection of a network service.

35-36 (Cancelled)

37. (New) The method according to claim 28, wherein said received authentication message is based on an extensible authentication protocol.

38. (New) The method according to claim 37, wherein said received authentication message is an extensible authentication protocol challenge response message.

39. (New) The method according to claim 28, wherein said service selection information comprises at least one access point name parameter.

40. (New) The method according to claim 39, wherein said access point name parameter is encrypted in said authentication message.

41. (New) The method according to claim 39, further comprising:

decrypting said at least one access point name parameter.

42. (New) The method according to claim 39, further comprising:

forwarding said at least one access point name parameter to said access point in an encrypted manner.

43. (New) The method according to claim 29, wherein said authentication message is an extensible authentication protocol message.

44. (New) The method according to claim 43, wherein said extensible authentication protocol message is an extensible authentication protocol challenge response message.

45. (New) The method according to claim 44, wherein said extensible authentication protocol challenge response message is an extensible authentication protocol subscriber identity module or extensible authentication protocol authentication and key agreement challenge response message.

46. (New) The method according to claim 29, wherein said service selection information comprises at least one access point name parameter.

47. (New) The method according to claim 29, wherein said service is a general packet radio service.

48. (New) An apparatus, comprising:
extracting means for extracting from a received authentication message a service selection information to select a service; and
controlling means for using said service selection information to establish a connection to services provided over an access point indicated by said service selection information.

49. (New) An apparatus, comprising:
setting means for setting in an authentication message a service selection information regarding selection of a network service; and
sending means for sending the authentication message.